CLAIMS

What is claimed is:

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1   1.   A method for copying data from an asynchronous transfer mode (ATM)
2   connection table, comprising:
3   (a)   monitoring an ATM connection table on an ATM network;
4   (b)   determining whether entries of the ATM connection table are active;
5   (c)   periodically transferring data from active entries of the ATM connection table to
6   memory;
7   (d)   utilizing identifiers associated with the data for identification purposes; and
8   (e)   utilizing the transferred data in the memory with an application program.

1   2.   The method as recited in claim 1, wherein the data is transferred from the active
2   entries of a plurality of ATM connection tables.

1   3.   The method as recited in claim 2, wherein the plurality of ATM connection
2   tables include one ATM connection table for each of a plurality of ATM links.

1   4.   The method as recited in claim 3, wherein the memory includes 4Kbtyes of
2   memory.

1   5.   The method as recited in claim 2, wherein the plurality of ATM connection
2   tables include at least one common ATM connection table.

1   6.   The method as recited in claim 1, wherein the entries of the ATM connection

2   table are active if the entries have been just created since a previous transfer of

3   data.

1   7.   The method as recited in claim 1, wherein the entries of the ATM connection

2   table are active if the entries have been altered since a previous transfer of data.

1   8.   The method as recited in claim 1, wherein the data from the active entries of the

2   ATM connection table includes statistical information.

1   9.   The method as recited in claim 1, wherein the data from the active entries of the

2   ATM connection table includes state information.

1   10.   The method as recited in claim 1, wherein a period with which the data is

2   periodically transferred from the active entries of the ATM connection table to

3   the memory is configurable.

1   11.   The method as recited in claim 10, wherein the period is configurable within a

2   predetermined range.

1   12.   The method as recited in claim 11, wherein the predetermined range is between

2   1 transfer/second to 4 transfers/second.

1   13.   The method as recited in claim 1, and further comprising initializing the periodic

2   transfer of the data utilizing an application program interface between the

3   application program and the memory.

1   14.   The method as recited in claim 1, and further comprising ceasing the periodic
2   transfer of the data utilizing an application program interface between the
3   application program and the memory.

1   15.   The method as recited in claim 13, wherein the application program interface
2   identifies a location in the memory to which the data is to be transferred.

1   16.   The method as recited in claim 13, wherein the application program interface
2   identifies a period at which the data is to be transferred to the memory.

1   17.   The method as recited in claim 1, wherein the data from each entry of the ATM
2   connection table is transferred independently.

1   18.   The method as recited in claim 1, wherein the memory is interrupted in order for
2   the application program to use the transferred data...

1   19.   The method as recited in claim 1, wherein multiple instances of the data are
2   stored in the memory.

1   20.   The method as recited in claim 1, wherein the memory stores the data in a
2   circular manner.

1   21.   The method as recited in claim 1, and further comprising identifying a last entry
2   of the ATM connection table.

1   22.   The method as recited in claim 1, wherein the identifiers are ATM connection
2   identifiers.

1   23.   The method as recited in claim 22, and further comprising translating the
2   identifiers.

1   24.   The method as recited in claim 1, and further comprising determining an age of
2   the data.

1   25.   The method as recited in claim 24, wherein the data is deleted upon the age
2   reaching a predetermined amount.
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1   26.   A computer program product for copying data from an asynchronous transfer
2   mode (ATM) connection table, comprising:
3   (a)   computer code for monitoring an ATM connection table on an ATM network;
4   (b)   computer code for determining whether entries of the ATM connection table are
5   active;
6   (c)   computer code for periodically transferring data from active entries of the ATM
7   connection table to memory;
8   (d)   computer code for utilizing identifiers associated with the data for identification
9   purposes; and
10   (e)   computer code for utilizing the transferred data in the memory with an
11   application program.

1   27.   The computer program product as recited in claim 26, wherein the data is
2   transferred from the active entries of a plurality of ATM connection tables.

1   28.   The computer program product as recited in claim 27, wherein the plurality of
2   ATM connection tables include one ATM connection table for each of a
3   plurality of ATM links.

1 29. The computer program product as recited in claim 28, wherein the memory
2   includes at least 4Kbtyes of memory.

1 30. The computer program product as recited in claim 27, wherein the plurality of
2   ATM connection tables include at least one common ATM connection table.

1 31. The computer program product as recited in claim 26, wherein the entries of the
2   ATM connection table are active if the entries have been just created since a
3   previous transfer of data.

1 32. The computer program product as recited in claim 26, wherein the entries of the
2   ATM connection table are active if the entries have been altered since a previous
3   transfer of data.

1 33. The computer program product as recited in claim 26, wherein the data from the
2   active entries of the ATM connection table includes statistical information.

1 34. The computer program product as recited in claim 26, wherein the data from the
2   active entries of the ATM connection table includes state information.

1 35. The computer program product as recited in claim 26, wherein a period with
2   which the data is periodically transferred from the active entries of the ATM
3   connection table to the memory is configurable.

1 36. The computer program product as recited in claim 35, wherein the period is
2   configurable within a predetermined range.

1   37.   The computer program product as recited in claim 36, wherein the
2   predetermined range is between 1 transfer/second to 4 transfers/second.

1   38.   The computer program product as recited in claim 26, and further comprising
2   initializing the periodic transfer of the data utilizing an application program
3   interface between the application program and the memory.

1   39.   The computer program product as recited in claim 26, and further comprising
2   ceasing the periodic transfer of the data utilizing an application program
3   interface between the application program and the memory.

1   40.   The computer program product as recited in claim 39, wherein the application
2   program interface identifies a location in the memory to which the data is to be
3   transferred.

1   41.   The computer program product as recited in claim 40, wherein the application
2   program interface identifies a period at which the data is to be transferred to the
3   memory.

1   42.   The computer program product as recited in claim 26, wherein the data from
2   each entry of the ATM connection table is transferred independently.

1   43.   The computer program product as recited in claim 26, wherein the memory is
2   interrupted in order for the application program to use the transferred data...

1   44.   The computer program product as recited in claim 26, wherein multiple
2   instances of the data are stored in the memory.

1　45.　The computer program product as recited in claim 26, wherein the memory
2　　　stores the data in a circular manner.

1　46.　The computer program product as recited in claim 26, and further comprising
2　　　identifying a last entry of the ATM connection table.

1　47.　The computer program product as recited in claim 26, wherein the identifiers are
2　　　ATM connection identifiers.

1　48.　The computer program product as recited in claim 47, and further comprising
2　　　translating the identifiers.

1　49.　The computer program product as recited in claim 26, and further comprising
2　　　determining an age of the data.

1　50.　The computer program product as recited in claim 49, wherein the data is
2　　　deleted upon the age reaching a predetermined amount.
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1　51.　A system for copying data from an asynchronous transfer mode (ATM)
2　　　connection table, comprising:
3　(a)　logic for monitoring an ATM connection table on an ATM network;
4　(b)　logic for determining whether entries of the ATM connection table are active;
5　(c)　logic for periodically transferring data from active entries of the ATM
6　　　connection table to memory; and
7　(d)　logic for utilizing identifiers associated with the data for identification purposes;
8　(e)　wherein the transferred data in the memory is capable of being used with an
9　　　application program.

1   52.   A method for copying data from a connection table, comprising:

2   (a)   receiving a signal indicating that data is ready to be received by an application

3   program;

4   (b)   identifying entries of a connection table in response to the signal;

5   (c)   determining whether the entries of the connection table are active;

6   (d)   transferring data from active entries of the connection table to memory; and

7   (e)   allowing the transferred data in the memory to be used by the application

8   program.

1   53.   A computer program product for copying data from a connection table,

2   comprising:

3   (a)   computer code for receiving a signal indicating that data is ready to be received

4   by an application program;

5   (b)   computer code for identifying entries of a connection table in response to the

6   signal;

7   (c)   computer code for determining whether the entries of the connection table are

8   active;

9   (d)   computer code for transferring data from active entries of the connection table to

10   memory; and

11   (e)   computer code for allowing the transferred data in the memory to be used by the

12   application program.